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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/699,981	11/03/2003	Arnd Kilian	14069-014001	5328
26211	7590 11/03/2006		EXAMINER	
FISH & RICHARDSON P.C.			NGUYEN, TUYEN T	
P.O. BOX 102 MINNEAPOL	22 LIS, MN 55440-1022		ART UNIT	PAPER NUMBER
WIII WEET OF	310, 1411. 00 110 1022	•	2832	
			DATE MAILED: 11/03/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/699,981	KILIAN ET AL.	
Office Action Summary	Examiner	Art Unit	
	TUYEN T. NGUYEN	2832	
The MAILING DATE of this communication	appears on the cover sheet wit	h the correspondence address	•
Period for Reply	DLV IO OET TO EVEIDE	MONTH (O) OR THIRTY (20)	DAVC
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	S DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re- riod will apply and will expire SIX (6) MON- atute, cause the application to become AB-	CATION.  ply be timely filed  I'HS from the mailing date of this communicat  ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 20	<u>0 July 2006</u> .		
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ T	his action is non-final.		
3) Since this application is in condition for allo			is
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-34 is/are pending in the applicat	ion.		
4a) Of the above claim(s) 1-13,17-20 and 24	4-32 is/are withdrawn from co	nsideration.	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>14-16,21-23,33 and 34</u> is/are reject	cted.		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner.		
10) The drawing(s) filed on is/are: a) a	accepted or b) Objected to b	y the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form P1O-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of:		119(a)-(d) or (f).	
1. Certified copies of the priority docum		anlication No	
<ul><li>2. Certified copies of the priority docum</li><li>3. Copies of the certified copies of the priority docum</li></ul>			
application from the International Bur		eceived in this National Stage	
* See the attached detailed Office action for a		eceived.	
A44			
Attachment(s)  1)   Notice of References Cited (PTO-892)	A) Intensions S	ummary (PTO-413)	
<ul> <li>1)</li></ul>	Paper No(s	)/Mail Date	•
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of In	formal Patent Application	

### **DETAILED ACTION**

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 14-16, 21-23 and 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson [US 6,445,271] in view of Hoshi et al. [US 6,181,130 B1].

Johnson discloses a micro-coils of an inductive component in planar substrates [figures 1A-2C] comprising:

- a substrate [11];
- a plurality of conductive lines [17], each of which extends along a bottom surface of a trench [19] in the substrate, along opposing sidewalls of the trench, and along an upper surface of the substrate at both sides of the trench;
- wire/conductive bonds interconnecting portions [16] connecting with the plurality of conductive lines forming a plurality of windings for the inductive component; and
- a magnetic material in the trench as a core [20] for the inductive component [column 6, lines 61-64].

Johnson discloses the instant claimed invention except for the specific of the wire bonds interconnecting portions of the conductive lines.

Hoshi et al. discloses a magnetic sensor [figures 5-6] comprising:

- an insulating body [31] having a groove [31a];

- a plurality of conductive lines [35] formed in the groove of the insulating body;

- a magnetic core [36]; and

- a plurality of wire bonds [51] that interconnecting portions of the conductive lines.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use the wire bond design of Hoshi et al. in Johnson for the purpose of facilitating manufacturing.

Regarding claims 14-16 and 33-34, the claims method steps would necessitate by the apparatus.

### Response to Arguments

Applicant's arguments with respect to claims 14-16, 21-23 and 33-34 have been considered but are most in view of the new ground(s) of rejection.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996.

The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2832

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

TTN MJ

TUYEN T. NGUYEN
Primary Examiner
Technology Center 2800

Trugler Nguyen